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☐   1. **IEEE trial-use recommended practice for distributed interactive simulation - verification, validation, and accreditation**
      20 July 1998
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1 Verification, validation & accreditation (panel): disciplines in dialogue or can we learn from the experiences of others?
James D. Arthur, Richard E. Nance, Robert G. Sargent, Dolores R. Wallace, Linda H. Rosenberg, Paul R. Muessig
December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**
Publisher: ACM Press, IEEE Computer Society
Full text available: 📄 pdf(806.48 KB) Additional Information: full citation, index terms

2 Construction engineering and project management: construction simulation methodologies I: Structure of an extensible augmented reality framework for visualization of simulated construction processes
Amir H. Behzadan, Hiam M. Khoury, Vineet R. Kamat
December 2006 **Proceedings of the 38th conference on Winter simulation WSC '06**
Publisher: Winter Simulation Conference
Full text available: 📄 pdf(729.26 KB) Additional Information: full citation, abstract, references

The presented work describes the recent research being conducted by the authors in the field of visualization of simulated construction processes. The underlying uncertainty involved in almost all construction operations makes it necessary to study and analyze the behavior of the acting resources in more detail and under different scenarios in order to come up with the most efficient method to perform a set of tasks and obtain the best possible result. Simulation and visualization of planned con ...

3 Virtual reality/3D visualization: 3D visualization: Visualization of construction graphics in outdoor augmented reality
Amir H. Behzadan, Vineet R. Kamat
December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**
Publisher: Winter Simulation Conference

Full text available: 📄 pdf(433.24 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This paper describes research that investigates the application of Augmented Reality (AR) in 3D animation of simulated construction operations. The objective is an AR-based platform that can be used together with corresponding equipment (HMD, GPS receiver, and a portable computer) to generate a mixed view of the real world and superimposed virtual simulation objects in an outdoor environment. The characteristic that distinguishes the presented work from indoor AR applications is the capability t ...

4   <u>Verification, validation and accreditation: VV&A; II: enhancing modeling and simulation accreditation by structuring Verification and Validation results</u>   ■
Dirk Brade
December 2000   **Proceedings of the 32nd conference on Winter simulation WSC '00**
Publisher: Society for Computer Simulation International
Full text available: 📄 pdf(782.36 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Model Verification, Validation and Accreditation (VV&A) is as complex as developing a Modeling and Simulation (M&S) application itself. For the purpose of structuring both *Verification and Validation (V&V) activities* and *V&V results,* we introduce a refined V&V process. After identification of the major influence factors on applicable V&V, a conceptual approach for subphase-wise organization of V&V activities is presented. Finally a hierarchical presentation of V&V results is shown ...

5   <u>A case study of verification, validation, and accreditation for advanced distributed simulation</u>   ■
Ernest H. Page, Bradford S. Canova, John A. Tufarolo
July 1997   **ACM Transactions on Modeling and Computer Simulation (TOMACS),** Volume 7 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(501.51 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

The techniques and methodologies for verification and validation of software-based systems have arguably realized their greatest utility within the context of simulation. Advanced Distributed Simulation (ADS), a major initiative within the defense modeling and simulation community, presents a variety of challenges to the classical approaches. A case study of the development process and concomitant verification and validation activities for the Joint Training Confederation (JTC) is presented ...

Keywords: IDEF modeling, advanced distributed simulation, aggregate level simulation protocol, life cycle, validation and accreditation, verification, wargame

6   <u>Introductory tutorials: Verification, validation, and accreditation: verification, validation, and accreditation of simulation models</u>   ■
Robert G. Sargent
December 2000   **Proceedings of the 32nd conference on Winter simulation WSC '00**
Publisher: Society for Computer Simulation International
Full text available: 📄 pdf(93.63 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

This paper discusses verification, validation, and accreditation of simulation models. The different approaches to deciding model validity are presented; how model verification and validation relate to the model development process are discussed; various validation techniques are defined; conceptual model validity, model verification, operational validity, and data validity are described; ways to document results are given; a recommended procedure is presented; and accreditation is briefly discu ...

7 The evolution of standards for accrediting computer science teacher preparation programs
Harriet Taylor
March 1997 **ACM SIGCSE Bulletin , Proceedings of the twenty-eighth SIGCSE technical symposium on Computer science education SIGCSE '97**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: pdf(733.26 KB)   Additional Information: full citation, abstract, references, index terms

In 1992, the National Council for the Accreditation of Teacher Education (NCATE) adopted guidelines for computer science education teacher preparation programs. The endorsement signaled the emergence of computer science education as a distinct discipline and computer science as a formal secondary subject area. The guidelines were developed through an intense program of research and review by the International Society for Technology and Education (ISTE). Since the passage of the standards, numero ...

8 Verification, validation and accreditation: An integrated approach to verification, validation, and accredition of models and simulations
Don Caughlin
December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**
Publisher: Society for Computer Simulation International
Full text available: pdf(93.41 KB)   Additional Information: full citation, abstract, references

In an M&S-Based Systems Acquisition, computer simulation is used throughout the development process not just as an analysis tool but also as a development tool. In general, development of a system capability using M&S-Based Systems Development will result in multiple models or simulations to meet specific needs. The Verification, Validation and Accreditation (VV&A) of each these tools is integral to M&S development. Integrating Verification and Validation (V&V) activities with M&S development an ...

9 Verification, validation and accreditation: VV&A; I: verification, validation, and accreditation in the life cycle of models and simulations
Jennifer Chew, Cindy Sullivan
December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**
Publisher: Society for Computer Simulation International
Full text available: pdf(222.67 KB)   Additional Information: full citation, abstract, references

Verification, validation, and accreditation (VV&A) activities should be an on-going process throughout the life cycle of models and simulations (M&S). It is important to note that there is no single set of VV&A tasks, events, or methods that would apply every time to every situation. The VV&A emphasis and methods used vary depending on the particular life cycle phase it is in, previous VV&A and use, the

risks and uncertainty, its size and complexity, and of course, the resources available. For s ...

10 <u>Advanced tutorials: verification, validation, and accreditation: Verification and validation of simulation models</u>
Robert G. Sargent
December 2005   **Proceedings of the 37th conference on Winter simulation WSC '05**
Publisher: Winter Simulation Conference
Full text available: pdf(359.75 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

In this paper we discuss verification and validation of simulation models. Four different approaches to deciding model validity are described; two different paradigms that relate verification and validation to the model development process are presented; various validation techniques are defined; conceptual model validity, model verification, operational validity, and data validity are discussed; a way to document results is given; a recommended procedure for model validation is presented; and a ...

11 <u>Verification and validation and complex environments: a study in service sector</u>
Roger Jenkins, Yogesh Deshpande, Graydon Davison
December 1998   **Proceedings of the 30th conference on Winter simulation WSC '98**
Publisher: IEEE Computer Society Press
Full text available: pdf(78.04 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

12 <u>Validation and verification of simulation models</u>
Robert G. Sargent
December 1999   **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1 WSC '99**
Publisher: ACM Press
Full text available: pdf(89.69 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

13 <u>Verification, validation and accreditation: Planning for verification, validation, and accreditation of modeling and simulation applications</u>
Osman Balci, William F. Ormsby, John T. Carr, Said D. Saadi
December 2000   **Proceedings of the 32nd conference on Winter simulation WSC '00**
Publisher: Society for Computer Simulation International
Full text available: pdf(272.15 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

A comprehensive and detailed verification, validation, and accreditation (VV&A) plan and its proper execution are crucially important for the successful accreditation of a modeling and simulation (M&S) application. We provide guidance in developing and executing such a plan throughout the entire M&S application development life cycle.

14   <u>Verification and validation of simulation models</u>

Robert G. Sargent

December 1998   **Proceedings of the 30th conference on Winter simulation WSC '98**

Publisher: IEEE Computer Society Press

Full text available: pdf(92.33 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

15   <u>Modeling methodology A: validation and reusability: Building modeling tools that support verification, validation, and testing for the domain expert</u>

Nicholas A. Allen, Clifford A. Shaffer, Layne T. Watson

December 2005   **Proceedings of the 37th conference on Winter simulation WSC '05**

Publisher: Winter Simulation Conference

Full text available: pdf(101.44 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Successfully building a model requires a combination of expertise in the problem domain and in the practice of modeling and simulation (M&S). Model verification, validation, and testing (VV&T) are essential to the consistent production of models that are useful and correct. There are significant communities of domain experts that build and use models without employing dedicated modeling specialists. Current modeling tools relatively underserve these communities, particularly in the area of model ...

16   <u>Computing curricula 2001</u>

September 2001   **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB) html(2.78 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

17   <u>Introductory tutorials: model validation and verification: Validation and verification of simulation models</u>

Robert G. Sargent

December 2004   **Proceedings of the 36th conference on Winter simulation WSC '04**

Publisher: Winter Simulation Conference

Full text available: pdf(433.22 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

In this paper we discuss validation and verfication of simulation models. Four different approaches to deciding model validity are described; two different paradigms that relate validation and verification to the model development process are presented; various validation techniques are defined; conceptual model validity, model verification, operational validity, and data validity are discussed; a way to document results is given; a recommended procedure for model validation is presented; and ac ...

18   <u>Introductory tutorials: Verification and validation: verification and validation of simulation models</u>

Robert G. Sargent

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation WSC '03**

Publisher: Winter Simulation Conference

Full text available: pdf(527.19 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

In this paper we discuss verification and validation of simulation models. Four different approaches to deciding model validity are described; two different paradigms that relate verification and validation to the model development process are presented; various validation techniques are defined; conceptual model validity, model verification, operational validity, and data validity are discussed; a way to document results is given; a recommended procedure for model validation is presented; an ...

19 <u>Verification and validation of simulation models</u>

Robert G. Sargent

December 1994 **Proceedings of the 26th conference on Winter simulation WSC '94**

Publisher: Society for Computer Simulation International

Full text available: pdf(1.12 MB) Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

20 <u>Validation and verification of simulation models</u>

Robert G. Sargent

December 1992 **Proceedings of the 24th conference on Winter simulation WSC '92**

Publisher: ACM Press

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